

Akshad Pai

U.S. Citizen | [linkedin.com/in/akshad-pai/](https://www.linkedin.com/in/akshad-pai/) | github.com/akshadpai | akshad.com

WORK EXPERIENCE

ROKMETRO, Chicago, IL

May 2024 – Present

Software Engineer | Flutter, Python, Go, MongoDB, Native iOS/Android

- Built **RokSpark**, an LLM-powered learning platform that generates personalized courses, including an **MCP server** that monitors live Claude Code/Codex sessions and recommends workflow optimizations
- Built backend services, Python automation tooling, and third-party integrations for the **Vogue magazine's mobile app**, contributing to growth from **100k to 1M+ users** and a **2x increase** in average user session time
- Refactored push-notification delivery from nested list scans to hash-map indexing, reducing worst-case complexity from **$O(n^2)$ to $O(n)$** and enabling migration to a third-party service
- Optimized MongoDB schemas and indexing strategies, reducing latency by **~5%** across **300k+ monthly users**
- Led an MVVM+BLoC refactor of a production Flutter app, replacing tightly coupled singleton services with modular layers to improve testability and parallel development

BuzzBuddy | buzzbuddy.co

Oct 2025 – Present

Co-founder & Software Engineer | React Native, Python, AWS, Firebase

- Engineered a cross-platform social drink-tracking app from concept to production using **React Native** and an AWS serverless stack
- Architected a scalable Python backend with **FastAPI, Pydantic, AWS Lambda, and Aurora DSQL**, using layered service/repository patterns secured by **Firebase Authentication and JWT-based authorization**
- Increased organic search traffic from single-digit weekly clicks to **hundreds of weekly clicks** through technical SEO improvements

ROKMETRO, Chicago, IL

May 2023 – Aug 2023

Software Engineer Intern | Flutter, Python, Go, MongoDB

- Led development of a code-generation tool, eliminating **15%** of backend Go code, reducing developer time by **20%**
- Built UI components and REST APIs for the **UIUC Illinois mobile app** with **60k+ users**
- Developed the initial prototype for **Vogue's mobile app**, implementing core features that shipped to production

PROJECT EXPERIENCE

False Social | akshad.com/falsesocial | *Python, AWS, React, LLMs*

- Engineered a Python AWS serverless pipeline that scraped and filtered **2.4k+** social media posts, running a **three-stage LLM inference pipeline** per post to analyze **1.2k+** high-confidence candidates
- Built an automated misinformation-classification pipeline that filtered social media posts and selected approximately **20%** for deeper misinformation analysis
- Iterated on a responsive React frontend with precomputed analytics and phrase-level highlighting, increasing average session duration from **15s to 54s** and posts viewed per session from **3 to 14**

ChiGo | chigo.app | *React Native, Node.js*

- Shipped React Native features to **10k+ users**, reducing sorting latency by **94%** through caching strategies
- Built a custom-location ranking feature that allows users sort stations relative to arbitrary locations

TECHNICAL SKILLS

Languages: Java, Python, C/C++, Go, Rust, Swift, Kotlin, Dart, TypeScript, JavaScript, HTML/CSS

AI / LLM: Claude Code, Cursor, Codex, OpenAI Agents SDK, MCP, RAG, n8n

Backend & APIs: Flask, FastAPI, Django, Node.js, Express.js, REST APIs, GraphQL, Zod

Frontend & Mobile: React, React Native, Flutter, Next.js, Angular

Cloud & DevOps: AWS (EC2, Lambda, S3), GCP, Azure, Docker, Terraform, GitHub Actions, Turborepo

Databases & Analytics: PostgreSQL, MongoDB, DynamoDB, Firebase, Supabase, pandas, NumPy, PostHog

EDUCATION

University of Illinois at Urbana–Champaign

Expected August 2026

M.S. Computer Science

GPA: 4.00/4.00

University of Illinois at Urbana–Champaign

May 2024

B.S. Mathematics & Computer Science

GPA: 3.74/4.00